

3  
HHR  
4/17/03

JC986 US PTO  
09/1960174  
09/21/01

CERTIFICATE OF MAILING  
37 C.F.R 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date below:

9-21-01  
Date

  
Signature

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

James F. Brennan, III, et al.

Serial No.: Unknown

Filed: September 21, 2001

For: ACCELERATED METHOD FOR  
INCREASING THE PHOTOSENSITIVITY  
OF A GLASSY MATERIAL

Group Art Unit: 1731

Examiner: Unknown

Atty. Dkt. No.: 54481US014

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

In accordance with 37 C.F.R. §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is hereby authorized to deduct said fees from 3M Innovative Properties Company Deposit Account No. 13-3723.

This application is a continuation application of Serial No. 09/616,117, filed July 14, 2000 and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d), copies of the listed documents are not enclosed as they have been previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/616,117.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,

By:   
Néstor F. Ho, Reg. No. 39,460

Date: September 21, 2001

3M Office of Intellectual Property Counsel  
P. O. Box 33427  
St. Paul, Minnesota 55133-3427  
Telephone: (512) 984-7443  
Facsimile: (512) 984-2020

JCS86  
09/21/01  
0960174

<b>INFORMATION DISCLOSURE STATEMENT</b>		<b>Atty. Docket No.:</b> <b>54481US014</b>		<b>Serial No.:</b> <b>Unknown</b>				
		<b>Applicant(s):</b> James F. Brennan, III, Diann A. Sloan, Maureen T. Fahey, and James C. Novack						
		<b>Filing Date:</b> September 21, 2001		<b>Group:</b> 1731				
		<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial		Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate	
		3,980,390	09/14/76	Yamamoto et al.	350	96	03/20/75	
		5,157,747	10/20/92	Atkins, et al.	385	37	01/18/91	
		5,235,659	08/10/93	Atkins, et al.	385	124	05/05/92	
		5,287,427	02/15/94	Atkins, et al.	385	124	01/28/93	
		5,500,031	03/19/96	Atkins, et al.	65	386	12/14/94	
		6,146,713	11/2000	Cullen, et al.	427	553	03/25/99	
<b>FOREIGN PATENT DOCUMENTS</b>								
		Document Number	Date of Publication	Country	Class	SubClass	Translation	
							Yes	No
		JP 07244210	19.09.95	Japan	G02B	5/18	**	
		WO 00/57225	29.09.00	PCT	G02B	6/16	X	
		** Abstract only						
<b>OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)</b>								
		R. M. Atkins and P. J. Lemaire, "Effects of Elevated Temperature Hydrogen Exposure on Short-Wavelength Optical Losses and Defect Concentrations in Germanosilicate Optical Fibers", J. Appl. Phys. 72 (2) 15 July 1992, pp. 344-348						
		R. M. Atkins, et al., "Mechanisms of Enhanced UV Photosensitivity via Hydrogen Loading in Germanosilicate Glasses", ELECTRONICS LETTERS, 8 <sup>th</sup> July 1993, Vol. 29, No. 14, pp. 1234-1235						
		G. W. Bibby and J. N. Ross, "Raman Spectral of Hydrogen-Treated Optical Fibres", Jan. 13, 1984 (2 pgs.)						
		M. T. Bryk, "Degradation of Filled Polymers: High Temperature and Thermal-Oxidative Processes", Ellis Horwood, 1991, Chapter 1, pp. 9-70						
		R. J. Campbell and R. Kashyap, "The Properties and Applications of Photosensitive Germanosilicate Fibre", INTERNATIONAL JOURNAL OF OPTOELECTRONICS, 1994, Vol. 9, no. 1, pp 33-57						
		P. E. Cassidy, "Nonheterocyclic Polymers: Backbones Containing Carbon and Oxygen and Their Thio Analogs", Thermally Stable Polymers, Marcel Dekker Inc., New York, 1980, Chapter 3, pp. 44-66						
		A. H. Frazer, "Inorganic Polymers", High Temperature Resistant Polymers, Interscience Publishers/-John Wiley and Sons, New York, 1968, pp. 217, 222, 229, 231, and 247 of Chapter V						
		D. P. Hand and P. St. J. Russell, "Photoinduced Refractive-Index Changes in Germanosilicate Fibers", Optics Letters, Vol. 15, No. 2, Jan. 15, 1990, pp. 102-104						

		N. H. Ky, et al., "Hydrogen-induced Reduction of Axial Stress in Optical Fiber Cores", APPLIED PHYSICS LETTERS, Vol. 74, No. 4, 25 January 1999, pp. 516-518
		P. J. Lemaire, et al., "High Pressure H <sub>2</sub> Loading as a Technique for Achieving Ultrahigh UV Photosensitivity and thermal Sensitivity in GeO <sub>2</sub> Doped Optical Fibres", ELECTRONICS LETTERS, 24 <sup>th</sup> June 1993, Vol. 29, No. 13, pp. 1191-1193
		P. J. Lemaire, et al., "Refractive-index-changes in Optical Fibers Sensitized with Molecular Hydrogen", OFC'94, Feb. 20-25, 1994, Vol. 4, Pp. 47-48
		P. J. Lemaire, "Enhanced UV Photopsensitivity in Fibers and Waveguides by High-Pressure Hydrogen Loading", OFC '95 Technical Digest, Wednesday Afternoon, pp. 162-163
		G. D. Maxwell, et al., "UV Written 13dB Reflection Filters in Hydrogenated Low Loss Planar Silica Waveguides", ELECTRONICS LETTERS, 4 <sup>th</sup> March 1993, Vol. 29, No. 5, pp. 425-426
		G. D. Maxwell, et al., "UV Written 1-5 μm Reflection Filters in Single Mode Planar Silica Guides", ELECTRONICS LETTERS, 22 <sup>nd</sup> October 1992, Vol. 28, No. 22, pp. 2106-2107
		Daniel McStay, "Photosensitive Effects in Optical Fibres", Thesis, 1989
		D. McStay, "Photosensitive Changes in GeDoped Fibers Observed by Raman Spectroscopy", SPIE, Vol. 1314, Fibre Optics 1990
		G. Meltz, et al., "Formation of Bragg Gratings in Optical Fibers by a Transverse Holographic Method", Optics Letters, Aug. 1, 1989, Vol. 14, No. 15, pp. 823-825.
		G. Meltz et al., "Bragg Grating Formation and Germanosilicate Fiber Photosensitivity", International Workshop on Photoinduced Self-Organization in Optical Fiber, SPIE, Vol. 1516, May 10-11, 1991, pp. 185-199
		F. Ouellette, et al., "Enhancement of Second-Harmonic Generation in Optical Fibers by a Hydrogen and Heat Treatment", APPLIED PHYSICS LETTER 54 (12), 20 March 1989, pp. 1086-1088
		F. Ouellette et al., "Permanent Photoinduced Birefringence in a Ge-doped Fiber", Applied Physics Letters, 29 April 1991, Vol. 58, p. 1813
		J. Stone, "Interactions of Hydrogen and Deuterium with Silica Optical Fibers: A Review", Journal of Lightwave Technology, Vol. LT-s, No. 5, May 1987, pp. 712-733.
		W. W. Wright, "The Development of Heat-Resistant Organic Polymers", Degradation and Stabilization of Polymers, G. Gueskens, Ed., Applied Science Publishers Ltd., London 1975, Chapter 3
<b>EXAMINER</b>		<b>Date Considered</b>

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820  
(Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce